SAFETY DATA SHEET

Trade name: DUAL COAT BASE

According to Regulation (EC) No 1907/2006 and Regulation (EU) 2020/878

Date of print: 24/11/2020
Date of issue: 05/11/2020
Version: 1.0 / EN

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: DUAL COAT BASE (White and Gray) / PICOTE DUAL COLOUR EPOXY FOR PICOTE BRUSH COATING™
Product code: PICOTE DC1000 E BASE / 2110001005

1.2. Relevant identified uses of the substance or mixture and uses advised against

„A" component (epoxy) of two-component epoxy resin.

1.3. Details of the supplier of the safety data sheet

Producer/Supplier: PICOTE SOLUTIONS OY LTD
Street/POB: PIENTEOLLISUUSTIE 24
Postcode/City/Country: 06450 PORVOO, FINLAND
E-mail address for a competent person responsible for the safety data sheet: richard@picotesolutions.com
Phone: +44 7827 223237

1.4. Emergency telephone number

Regional Medicines and Poisons Information Centre NI, Belfast
Tel.: +44 844 892 0111 (24 hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard classes / categories	*Hazard statements*	
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1B	H317	May cause an allergic skin reaction.
Eye Irrit. 2	H319	Causes serious eye irritation.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:

Signal word: Warning
Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: In case of accident or if you feel unwell, seek medical advice immediately. Show the label where possible. Take off immediately all contaminated, soaked clothing. Wash thoroughly (shower or bath). The person concerned must be removed from the danger zone and laid down. He/she should be transported lying down, in a semi-sitting position in case of shortness of breath. He/she should be kept at rest, covered and kept warm. He/she must not be left unattended.

4.1.1. Inhalation: The affected person should be taken out to fresh air and kept warm and calm. In case of respiratory distress or respiratory arrest give artificial respiration. Call a doctor immediately.

4.1.2. Skin contact: If substance has got into skin, immediately wash out with plenty of soap and water. In case of skin reaction or irritation, consult a doctor.

4.1.3. Eye contact: In case of contact with eyes, rinse immediately with plenty of running water for 10 to 15 minutes holding eyelids apart. Consult an eye doctor. Remove contact lenses, if present and easy to do. Continue rinsing. The intact eye must be protected.

4.1.4. Ingestion: Rinse mouth with plenty of water (only if the person is conscious) and seek medical advice immediately. Do NOT induce vomiting.

Protection of first-aider: Take care of self-protection.

4.2. Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin, sensitizing skin.

4.3. Indication of any immediate medical attention and special treatment needed

First aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide (CO_2), dry powder, alcohol resistant foam, water spray.
Unsuitable extinguishing media: high volume water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO_2), potentially hazardous substances produced in the fire.

5.3. Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No exposure limit value is known in the EU directives.
DNEL values
2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)] bisoxirane (CAS: 1675-54-3)
Workers: systemic effects, acute exposure, dermal
Limit value: 8.3 mg/kg
Workers: systemic effects, long-term exposure, dermal
Limit value: 8.3 mg/kg
Workers: systemic effects, acute exposure, inhalation
Limit value: 12.3 mg/kg
Workers: systemic effects, long-term exposure, inhalation
Limit value: 12.3 mg/kg
PNEC values
2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)] bisoxirane (CAS: 1675-54-3)
PNEC freshwater: 0.006 mg/l
PNEC freshwater (intermittent releases): 0.018 mg/l
PNEC freshwater sediment: 0.996 mg/l
PNEC marine water: 0.0006 mg/l
PNEC marine sediment: 0.0996 mg/l
PNEC soil: 0.196 mg/l
PNEC sewage treatment plant: 10 mg/l

8.2. Exposure controls

Appropriate engineering controls:
Provide good ventilation. The application of technical measures and appropriate work procedures shall take precedence over the use of personal protective equipment.
Individual protection measures

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses with side shields (frame goggles, DIN EN 166). The eye shower should be kept ready and its location should be marked.

Skin protection

Hand protection: Cuffed gloves. Suitable material: PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber), butyl rubber, PVA (polyvinyl alcohol), FKM (fluoroelastomer), NBR (nitrile rubber). Wearing time in case of non-continuous contact (splashes): > 10 min. Only chemical protective gloves with a CE mark and a four-digit control number may be worn when working with chemicals. The breakthrough time and the swelling characteristics of the material must be taken into account. For special use, it is recommended to consult the glove manufacturer for the chemical resistance properties of each protective glove. DIN/EN standards: EN ISO 374.

Body protection: Protective clothing: according to the standard DIN EN 14605.
Safety footwear: according to the standard DIN EN ISO 20345.
Only wear protective clothing of the correct size, comfortable to wear and clean.

10.3. Possibility of hazardous reactions

May produce violent reactions with bases and numerous organic substances including alcohols and amines, polymerizing and generating heat.

10.4. Conditions to avoid

Short-term exposure to temperature > 50 °C or long-term exposure at > 30 °C; direct sunlight and humidity.

10.5. Incompatible materials

Strong oxidizing agents, strong mineral acids, bases, amines, amides.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

No test data is available for the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1. Acute toxicity – oral:

Endpoint	*Species*	*Effective dose*	*Exposure route*
(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)			
LD50	Rat	> 15000 mg/kg	oral

Acute toxicity – dermal:

Endpoint	*Species*	*Effective dose*	*Exposure route*
(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)			
LD50	Rabbit	23000 mg/kg	dermal

11.1.2. Irritation/Corrosion
Irritating to eyes and skin.
11.1.3. Sensitisation
May cause sensitization by skin contact because of two irritating components.
11.1.4. Germ cell mutagenicity
No components are classified.
11.1.5. Carcinogenicity
Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm is classified as Carc. 2 from 9 September 2021, but its liquid mixtures are not.
11.1.6. Reproductive toxicity
No components are classified.
11.1.7. STOT – single exposure
No components are classified.
11.1.8. STOT – repeated exposure
No components are classified.
11.1.9. Aspiration hazard
No components are classified.
11.1.10. Toxicokinetics
No data.
11.1.11. Genetic toxicity
No components are classified.

11.2. Information on other hazards

No specific data available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

(ADR/RID/ADN, IMDG, IATA)

14.1. UN number or ID number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)

14.3. Transport hazard class(es) 9

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for users

ADR/RID/ADN	IMDG	IATA
Tunnel code: (-)	EmS: (F-A, S-F)	PAX 964; CAO 964

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The product is covered by the SEVESO III Directive (Directive 2012/18/EU) due to its environmental hazards.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

SAFETY DATA SHEET

Trade name: DUAL COAT CATALYST

According to Regulation (EC) No 1907/2006 and Regulation (EU) 2020/878

Date of print: 24/11/2020
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: DUAL COAT CATALYST / PICOTE DUAL COLOUR EPOXY FOR PICOTE BRUSH COATING™
Product code: PICOTE DC1000 E CATALYST / 2110001005

1.2. Relevant identified uses of the substance or mixture and uses advised against

„B" component (amine) of two-component epoxy resin.

1.3. Details of the supplier of the safety data sheet

Producer/Supplier: PICOTE SOLUTIONS OY LTD
Street/POB: PIENTEOLLISUUSTIE 24
Postcode/City/Country: 06450 PORVOO, FINLAND
E-mail address for a competent person responsible for the safety data sheet: richard@picotesolutions.com
Phone: +44 7827 223237

1.4. Emergency telephone number

Regional Medicines and Poisons Information Centre NI, Belfast
Tel.: +44 844 892 0111 (24 hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard classes / categories	*Hazard statements*	
Skin Corr. 1A	H314	Causes severe skin burns and eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Eye Dam. 1	H318	Causes serious eye damage.
Repr. 2	H361f	Suspected of damaging fertility.
Aquatic Acute 1	H400	Very toxic to aquatic life
Aquatic Chronic 1	H410	Very toxic to aquatic life with long-lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:

Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

2,2,4-trimethylhexane-1,6-diamine	247-063-2 -	25513-64-8	01-2119480150-50	<10%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Skin Sens. 1 Aquatic Chronic 3	H302 H314 H318 H317 H412

[1] – *See Section 16 for the full text of the abbreviations declared above.*
[2] – *Candidate list substance.*
[3] – *M factor is 10*
[4] – *EUH071 applies.*

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: In case of accident or if you feel unwell, seek medical advice immediately. Show the label where possible. Take off immediately all contaminated, soaked clothing. Wash thoroughly (shower or bath). The person concerned must be removed from the danger zone and laid down. He/she should be transported lying down, in a semi-sitting position in case of shortness of breath. He/she should be kept at rest, covered and kept warm. He/she must not be left unattended.

4.1.1. Inhalation: The affected person should be taken out to fresh air and kept warm and calm. In case of respiratory distress or respiratory arrest give artificial respiration. Call a doctor immediately.

4.1.2. Skin contact: If substance has got into skin, immediately wash out with plenty of soap and water. In case of skin reaction, consult a doctor. The injured person should receive medical treatment immediately because untreated chemical burns are difficult to heal. In case of skin irritation, consult a doctor.

4.1.3. Eye contact: In case of contact with eyes, rinse immediately with plenty of running water for 10 to 15 minutes holding eyelids apart. Consult an eye doctor. Remove contact lenses, if present and easy to do. Continue rinsing. The intact eye must be protected.

4.1.4. Ingestion: Rinse mouth with plenty of water (only if the person is conscious) and seek medical advice immediately. Do NOT induce vomiting.

Protection of first-aider: Take care of self-protection.

4.2. Most important symptoms and effects, both acute and delayed

In case of inhalation: irritation of the respiratory tract and lung.
In case of contact with skin: causes severe burns. May cause an allergic skin reaction.
On contact with eyes: causes serious eye damage.
On ingestion: causes severe internal burns. Gastrointestinal complaints. Abdominal pain. There is a risk of perforation of the esophagus and stomach (strong corrosive effect).

4.3. Indication of any immediate medical attention and special treatment needed

First aid, decontamination, symptomatic treatment. Follow-up for pneumonia and pulmonary edema.

See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes, on skin or on clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers may retain product residue and can be hazardous.
Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Avoid exposure to heat, light, and air for prolonged periods of time. Eliminate all ignition materials and incompatible materials.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this Section 7 has to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL values
4-tert-butylphenol (CAS: 98-54-4)
Workers: long-term exposure, dermal
Limit value: 0.071 mg/kg/day
Workers: long-term exposure, inhalation
Limit value: 0.5 mg/m³
PNEC values
Reaction products of C18 (unsaturated) fatty acids with tetraethylenepentamine (CAS: 1226892-45-0)
PNEC freshwater: 0.0307 mg/l
PNEC sediment: 119.8 mg/kg dry weight
PNEC marine water: 0.00307 mg/l
PNEC soil: 9.44 mg/kg dry weight

8.2. Exposure controls

Appropriate engineering controls:
Provide good ventilation. If artificial air-exhaust or ventilation is not possible or not satisfactory, a protective mask should be worn. The application of technical measures and appropriate work procedures shall take precedence over the use of personal protective equipment.

Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working

n)	**Partition coefficient n-octanol/water (log value)**	not applicable (mixture)
o)	**Vapor pressure:**	no data
p)	**Density and/or relative density:**	1,01 kg/dm^3 at room temperature
q)	**Relative vapor density:**	not applicable (mixture)
r)	**Particle characteristics**	not applicable (liquid)

9.2. Other data

No data.

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

To avoid exothermic reactions, keep away from oxidizing reagents and highly acidic materials.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

No test data is available for the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1. Acute toxicity:
Not classified according to the components.
11.1.2. Irritation/Corrosion
Causes severe skin burns and eye damage. Corrosive: may be absorbed through the skin.
11.1.3. Sensitisation
May cause sensitization by skin contact.
11.1.4. Germ cell mutagenicity
No data.
11.1.5. Carcinogenicity
No data.
11.1.6. Reproductive toxicity
Classified because of 4-tert-butylphenol content.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

(ADR/RID/ADN, IMDG, IATA)

14.1. UN number or ID number UN2735

14.2. UN proper shipping name Polyamines, liquid, corrosive, n.o.s. (Aliphatic Amine, Polyamidoamine)

14.3. Transport hazard class(es) 8

14.4. Packing group II

14.5. Environmental hazards Yes

14.6. Special precautions for users

ADR/RID/ADN	IMDG	IATA
Tunnel code: (E)	EmS: (F-A, S-B)	PAX 851; CAO 855

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The product is covered by the SEVESO III Directive (Directive 2012/18/EU) due to its environmental hazards.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

P273	Avoid release to the environment.
Hazard classes	
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment, acute
Aquatic Chronic	Hazardous to the aquatic environment, chronic
Eye Dam.	Serious eye damage
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization